X
86

Report on the
Ajmere Merwara
Forest Department
for 1892-93

Year: 1893

Sub: Forests /
Report

WEST BENGAL SECRETARIAT
LIBRARY

C+/86

REPORT

ON THE

AJMERE-MERWARA FOREST DEPARTMENT

FOR

1892-93.

86

X

BENGAL

No. 561-F., dated Simla, the 24th May 1894.

From—Sir E. C. Buck, Kt., c.s.i., Secretary to the Government of Department of Revenue and Agriculture,

To—The Chief Commissioner of Ajmere.

I am directed to acknowledge the receipt of your letter No. 54-S., d: the 9th January last, submitting the Report on Forest Administration Ajmere-Merwara for the year 1892-93, together with a copy of vour ord thereon. For the reasons indicated in this Department's Circular No. 16-F., dat 7th June 1892, the present report embraces the period of 15 months endi 30th June 1893.

2. Regulation I of 1892, for affording the assistance of Government in th conservation of woods and pasture-lands in Ajmere not being State property, wa introduced at the beginning of the period, and although no actual progress in th constitution of village reserves took place, it is satisfactory to learn that speci endeavour was made to induce the people to bring their communal lands unde the Regulation. You observe that it is contemplated to constitute two reserves, ch 15 miles in length and of an acreage which indicates an average breadth of less than 200 yards. Under the circumstances usual in this country, the efficient protection of such tracts would necessarily be difficult, and the Government of India are advised that, in order to fully utilise the powers derivable from the Regulation, it will be advisable in future to reserve, as far as possible, compact blocks of forest. This should be borne in mind hereafter, though it may be expedient, especially until the advantages obtainable under the Regulation are recognised by the people, to reserve any tracts the villagers themselves may be willing to set apart for that purpose. The willingness of the people to take advantage of the Regulation is an indispensable condition to its successful working.

3. During the year under review a general scheme for the regulation of forest working, including grazing management, in the State forests, was prepared by an Assistant Conservator deputed from Berar for the purpose. The introduction, when approved by you, of a well-considered plan of the kind; the adherence to the policy already approved by this Government for the utilisation by the people of the grass-crops of the forests, as well as the opportunity afforded by the recently enacted Regulation for the constitution of village reserves, will combine, it is hoped, to place forest administration on a satisfactory basis.

Vide letter No. 479-F., dated 24th February 1892.

4. The failure of the monsoon rains in 1891 necessitated, in the period under notice, the opening to grazing of almost the entire reserved area until the rains of 1892 set in. The Government of India, however, are glad to observe that, in consequence of the favourable rains of the season, it was found practicable to revert in 1893 to the practice, which had been in vogue until 1889-90, of restricting grazing and of more economically using the grass-crops by cutting and storing fodder. In pursuance of this policy, nearly one-half of the reserves were wholly closed to grazing in 1893, and the remainder, or 50,000 acres, was opened during the four months preceding the rains, a relatively small number of cattle

dmitted. In consequence, the quantity of cut fodder removed free of
ıt increased from 324,000 bundles in 1891-92 to 1,093,000 bundles in the
ı under notice.

. The general protection and working of the forests, which presented no
ıal features, has been fully reviewed in your orders on the report. Allow-
or the additional period of three months covered by the returns, the quan-
of forest produce removed under all heads was materially increased as com-

	* Year	Receipts.	Charges.	Surplus or Deficit.	Proportion of Surplus or Deficit to gross Revenue.
		Rs.	Rs.	Rs.	Per cent.
	'est year 1892-93 ...	13,323	15,630	—2,307	—17·31
Financial year.	1892-93 ...	14,887	14,997	—110	—0·74
	1891-92 ...	19,799	13,986	+5,813	+29·36
	Difference in 1892-93	—4,912	+1,011	—5,923	—30·10
	Average for the five years ending 1891-92.	14,905	14,796	+109	+0·73

pared with the previous figures. The financial results* were not quite so favourable as in the preceding year, owing mainly to a diminution in the receipts from grazing caused by the presence of grass outside forest limits, and to the cost entailed by the preparation of the working-plan. A feature of interest and importance is that the right-holders participated in the outturn of the forests to the estimated amount of Rs. 69,000, which, after allowing for the longer period covered by the report, shows again a marked increase, and indicates progress in the working of the forests for the benefit of those who had certain proprietary rights in them before they were constituted reserves. I am to say in conclusion that the Government of India concur in your estimate of the year's work, which continued to be creditable to the Forest Officer.

6. The Government of India would prefer that in future the report of the Commissioner, as well as the resolution with which it is submitted, should be not so much an abstract or summary of the report as an intelligent review of administrative operations and their results.

No. 562-F.

COPY, with copy of the Report, forwarded to the Government of the North-Western Provinces and Oudh for communication to the Conservator of Forests, School Circle.

No. 563-F.

COPY, with copy of the Report, forwarded to the Foreign Department for information.

Appendix showing discrepancies noticed in the Ajmere Forest Administration Report for 1892-93.

FORM NO. 55.

(*Return of grazing.*)

The grand total of value at full rates has been entered in column 27 instead of in column 28.

PARAGRAPH 19 OF CHIEF COMMISSIONER'S RESOLUTION.

(*Financial Results.*)

The figures 5,813, which represent the surplus obtained in 1891-92, have been placed under the Receipts and Charges of 1892-93; while the figures 1,862, which represent the Deficit in 1892-93, have been placed under the figures in the column headed "Difference."

G. C. Press, Simla.—No. 143 R. & A. D.—28-5-94—185.

BENGAL SECRETARIAT
4362
Library

Extracts from the Proceedings of the Chief Commissioner of Ajmere-Merwara,—No. 3201 S., dated 2nd November 1893.

Read—

The Annual Progress Report of Forest Administration in Ajmere and Merwara for the year 1892-93, by Sirdar Hira Singh, Extra Assistant Conservator of Forests, with a review thereon by the Commissioner of Ajmere and Merwara, received under cover of his letter No. 166 F. of 4th October 1893.

RESOLUTION.

1. The Report has been submitted punctually. The present report is drawn up from 1st April 1892 to 30th June 1893, instead of for the financial year, in accordance with Government of India Circular No. 16F. of 7th June 1892. The information in the report, therefore, relates to 15 months instead of 12 months; future reports will be for 12 months ending 30th June. The forms required by section 267 of the Forest Code have all been prepared and appended to the report, except Nos. 46 (protected forests), 47, 59 and 60, which are stated to be not applicable to the Ajmere and Merwara Circle.

Alteration of Area.

2. The area controlled by the Forest Department in Ajmere and Merwara was reduced by 50 acres during the year, which is explained by the fact that the settlement of a boundary dispute in the Beliawas Forest Reserve, between British Merwara and the Meywar State, was in favour of the latter. The total area on 30th June 1893, therefore, comprised 89,178 acres against 89,228 in the previous financial year.

Forest Settlements.

3. The record of forest rights referred to in the previous report is being checked and examined by the District Revenue Officers.

Village Reserves.

4. There has been no change in the area (5,305 acres) of village reserves in the year under review. The efforts made to reserve 6,000 acres of village waste land in the neighbourhood of Rajgurh, mentioned in the previous report, fell through, owing to the majority of the villagers opposing the scheme. Fresh proposals, however, for reserving about 2,000 acres of waste land on the Nagpahar Range are stated to have been made by the Extra Assistant Conservator, under Regulation I of 1892. This tract will form two useful reserves, each about 15 miles long.

Demarcation.

5. Boundary pillars were examined and maintained at a cost of R17-6-6. Nearly 6 miles of boundary fences were repaired in the Mohwabir, Nagpahar, and Balad reserves, at a cost of R100. The cost per mile was R17 against R13 in the previous year, and R27 in 1890-91.

Surveys.

6. No survey was undertaken during the year.

Working-plans and their Control.

7. The working-plan, drawn up by Mr. Coventry, Assistant Conservator of Forests, who was specially deputed from Berar for the purpose, is now under consideration, and will be shortly submitted to the Government of India. The total cost of preparing the working-plans, including the pay and allowance of Mr. Coventry, was R2,316, or R17 per square mile.

Annual Plans of Operations.

8 The annual plan of operations was drawn up for the official year. The present report relates to the special forest year. Consequently, more area was coppiced in Nagpahar and Chang Forest Reserves, and a larger number of bamboos sold from Todgurh and Dewair Forests than entered in the annual plan.

General Protection and Breaches of Forest Law.

9. There were 177 against 139 offences in the preceding year. Of these, 161 cases were tried by the Magistrate, and 16 were compounded by the Forest Officer. Convictions were obtained in all excepting 3 cases. The increase is due to unauthorized felling, chiefly in Todgurh tehsil.

Cattle Trespasses.

10. The number of cattle impounded was 1,926 against 5,442 of the preceding year. This large falling-off is chiefly due to the abundance of grass, both outside and inside the Government Reserves, owing to the exceptionally good rains last year. The pound receipts consequently fell to R151.

Communications and Buildings.

10A. The total cost under this head was R386 against R504 in the previous year.

Protection from Fire.

11. Three fires took place during the year, burning in all 28 acres. Ten acres were burnt in the Madar Hill, owing to carelessness on the part of pilgrims to the shrine on that hill, and 18 acres in Dewair Reserve, owing to the negligence of the Forester and guards. The offenders in the first case could not be traced, but in the latter, the Forester was dismissed and the guards fined. The damage done was not extensive: only the inferior kinds of grass were burnt. The cost of fire protection was ·41 against ·16 pies per acre in the past year, due principally to the protection of the larger area closed against grazing.

Regulation of Grazing and Protection from Cattle.

12. The number of cattle admitted for grazing was only 27,128 against 47,980 of the last year. Of these, 25,907 belonged to right-holders, and 1,221 to outsiders. The reduced numbers are due to the better conditions which obtained in the year under review than in the previous year. In 1893, *i.e.*, from 1st March to 30th June 1893, grazing was permitted only in three selected blocks, *viz.*, Todgurh, Dewair, and Bilawas, and the number of cattle was limited to 3,150, all belonging to right-holders.

Natural Reproduction.

13. The results under this head were favourable this year, following on a good season of rainfall and also because of the restricted grazing.

Artificial Reproduction.

14. The cultural operations extended over 148 acres against 110 in 1891-92, with the following results:—

	Acres.	Failures.	Net addition.
Sowing	135	57	78
Planting	13	...	13
Total	148	57	91

The total expenditure under this head, including maintenance of nursery, was R1,553 against R1,720 of the preceding year.

Other Works.

15. Rupees 317 were spent under this head, which is chiefly on account of pay of two meteorological observers.

Meteorological Observation and other Experiments.

Rainfall.

16. Though, after two years of extreme drought, the rains were good in the districts, yet they had not much effect on the springs of experimental wells, which remained dry.

The visit of Mr. Murray, Meteorological Reporter to the Government of the North-Western Provinces and Oudh, who inspected the forest observatories in Ajmere-Merwara during the year, led to certain suggestions and improvements, which have since been carried out.

Gross Yield and Outturn of Forest-produce.

17. Fourteen thousand one hundred and sixty-one cubic feet timber, 267,495 cubic feet of fuel and other minor produce, amounting to R77,617, were removed from the forests. There was a marked improvement under each head as compared with 1891-92.

Free Grants.

18. The following table shows the results of the free grants made to the right-holders—

	C. ft.	Estimated value. R
Timber for household and agricultural purposes	3,335	227
Minor produce—		
(*a*) Grass	...	68,393
(*b*) Grazing	...	912
Total	3,335	69,532

The money-value of these grants in the preceding year was R42,061.

Financial Result.

19. The following table compares the receipts and charges for the last two years:—

	1891-92. R	1892-93. R	Difference. R
Receipts	19,799	16,909	—2,890
Charges	13,986	18,771	—4,785
		+5,813	—1,862

The receipts fell short by R2,890, as compared with the preceding year, due mainly to smaller realizations under grazing and grass, as there was abundance of grass outside the reserves. The excess expenditure, *viz.*, R4,785, is chiefly due to the pay and allowances of the Working-Plans Officer specially deputed from Berar; these charges, if excluded, would leave a saving on the normal receipts and charges of the year of R454.

GENERAL.

20. At the request of the Resident, Western Rajputana States, Sirdar Hira Singh inspected the forest at Mount Abu, where satisfactory progress is reported to have been made since the starting of protection in 1890.

The students of the Dehra Dun Forest School paid a third visit to the Ajmere and Merwara Forests under Mr. A. Smythies, Deputy Director of Forests.

On the whole, the report is satisfactory and the year's operations creditable to Sirdar Hira Singh, Extra Assistant Conservator of Forests.

ORDERS.

ORDERED, that a copy of this Resolution, together with Commissioner's review, and the Report, with statements submitted by the Extra Assistant Conservator, be forwarded to the Government of India, Revenue and Agricultural Department, under a cover of separate letter.

Ordered also, that a copy of the above Resolution be forwarded to the Commissioner of Ajmere and Merwara for information and guidance, and communication to the Extra Assistant Conservator of Forests.

By order,

H. F. WHITE, M.I.C.E.,
Secretary to the Chief Commissioner,
Ajmere-Merwara,
Public Works Department.

BENGAL SECRETARIAT LIBRARY

REPORT

ON THE

AJMERE-MERWARA FOREST DEPARTMENT

FOR

92-93.

REST.

The period covered by the report submitted by the Extra Assistant Conservator of Forests for Ajmere-Merwara extends from 1st April 1892 to 30th June 1893, instead of the 31st March 1893, fifteen months. This is in accordance with the orders conveyed in Circular No. 16F., dated 17th June 1892, issued by the Government of India, in the Revenue and Agricultural Department, by which the year reviewed in the Forest Reports will in future be the twelve months ending the 30th June each year.

AREA.

State Reserves.

The area of the Reserved State Forests was reduced by 50 acres during the year, owing to the settlement in favour of the Meywar Darbar of a boundary dispute in the Beliawas Forest Reserve between the British district of Merwara and the Udaipur State. The area, therefore, on the 30th June 1893 was 89,178 acres against 89,228 on the 31st March 1892.

The record of forest rights referred to in last year's report, as completed by the Extra Assistant Conservator of Forests, is now being carefully checked and examined by the District Revenue Officers before submission to the Chief Commissioner and the Government of India. As soon as it has been finally accepted and sanctioned, the area of the reserve forests therein recorded will be adopted for the purposes of this report.

Village Reserves.

Every effort was made during the year to add to the list of the village reserves, but no definite results were obtained. The proposals mentioned in last year's report for reserving 6,000 acres of waste land in the vicinity of Rajgurh fell through, as the majority of the villagers opposed the scheme, although the Jagirdar himself was in favour of it. As the objections raised appeared reasonable, it was decided to relinquish the plan temporarily.

Fresh proposals, however, for reserving about 2,000 acres of waste land in eleven villages on the Nagpahar Range, also in the Ajmere district, have been submitted by the Extra Assistant Conservator of Forests to the Collector under Regulation I of 1892. This tract would form two useful reserves, each about 15 miles long. The majority of the villagers concerned have accepted the scheme, although some have presented petitions against it. These are now under consideration.

Boundary pillars.

Boundary pillars were examined and repaired. The cost of the repairs amounted to R17-6-6.

Twenty-nine thousand eight hundred and fifty feet, or nearly 6 miles, of boundary fences were repaired in the Mohwabir, Nagpahar, and Balad Reserves, the expenditure incurred being R100 against R318 in the year 1891-92.

Surveys.

No survey work was undertaken during the year.

Working-plans.

Mr. E. M. Coventry, Assistant Conservator of Forests, was deputed from Berar to aid the local Forest Officer in the preparation of a working-plan for the forests of Ajmere-Merwara. He arrived on the 7th January 1893, and submitted his report on the 20th April. The report has been printed and submitted to the Inspector-General of Forests in the first instance for consideration, in accordance with the rules issued in connection with the subject.

The total cost of preparing the working-plan was R2,316, or R17 per square mile, inclusive of the pay and allowances of the officer specially deputed for the purpose.

Annual plan of operations.

The annual plan of operations was drawn up in the first instance for the official year ending 31st March 1893. This report, however, covers the 15 months ending 30th June 1893, which fact explains the excess in the area coppiced and in the number of bamboos sold from certain forest reserves in Merwara over the figures entered in the annual plan.

Forest offences.

The number of forest offences increased from 139 in 1891-92 to 177 in the year under review. The total in 1890-91 was 239: 161 cases against 86 were tried by Magistrates, and 16 against 53 were compounded by the Forest Officer for a total amount of R27. In all cases, except three, conviction was obtained. The increase was due to the number of cases of unauthorised felling, chiefly in the Todgurh tehsil, Merwara district. While the scarcity lasted (namely, till the end of June 1892) the collection and sale of dry wood were permitted as a special concession. The privilege was however abused. In many cases green wood was cut, and the offenders on detection were prosecuted.

Cattle trespass.

The number of cattle impounded was 1,926, or 3,516 less than in the previous year. The decrease was due to the exceptionally good crop of grass, which was plentiful both outside and inside the Government reserves. The pound receipts consequently fell from R484 to R151.

Fire conservancy.

Three fires occurred during the year under report. The area affected measured altogether 23 acres, but fortunately no valuable forest was destroyed. The fire by which 10 acres were burnt in the Madar Hill reserve was probably due to the carelessness of pilgrims to the shrine on that hill, but the culprits could not be traced. Thirteen acres were burnt by the two fires in the Dewair Reserve owing to the negligence of the Forester and the guards. The Forester was dismissed and the guards fined.

The cost of fire conservancy was R136-2-8 against R45 in the preceding year, the rate per acre being ·44 pies against ·16 pies. The increase in the expenditure under this head is due to the fact that the forests contained far more grass than in 1891-92, and as grazing was restricted and the villagers left much grass uncut, the necessity for protection was proportionately enhanced.

Of 89,178 acres, the total area of the reserved forests, 30,100 acres were protected from fire by the ordinary establishment, without the adoption of special measures.

Grazing.

The failure of the monsoon of 1891 following upon the drought of 1890 rendered it necessary to permit the extension of the special grazing privileges, which were conceded in 1891, from the 1st January 1892 until the rains set in. The number of cattle admitted for grazing was, however, considerably reduced, being only 27,128 against 47,989 in the previous year, and 26,359 in 1890. Of this number, 25,907 cattle belonged to right-holders and 1,221 to outsiders.

In 1893, from the 1st of March to the 30th June, grazing was again permitted, but only in three selected blocks, *viz.*, Todgurh, Dewair, and Beliawas.

The number of cattle admitted was limited to 3,150, all belonging to right-holders, against 27,128 in the previous season. The restrictions were imposed with regard to the policy of Government referred to in paragraph 12 of the Chief Commissioner's review of the Report for 1891-92.

Natural reproduction.

The period under review was as favourable for natural reproduction as the preceding year was the reverse. This was especially the case with bamboo, kumta, dhonkra, kalia, and dhak.

Artificial reproduction.

The result of the cultural operations which extended over 148 acres against 110 in 1891-92 and 98 acres in 1890-91 is as follows :—

	Acres.	Struck off as failure.	Net addition.
Sowing	135	57	78
Planting	13	...	13
TOTAL	148	57	91

The net addition in 1891-92 was only 48 acres.

The total expenditure incurred on these operations, including the maintenance of nurseries, amounted to R1,553 against R1,720 in the previous year and R929 in 1890-91.

Roads and Buildings.

The total cost under the head of Roads and Buildings was R386—as shown below :—

	R
Roads	50
Buildings	19
Other works	317
TOTAL	386

The expenditure in the previous year was R504.

Roads.

A cart-road, about half a mile long, was constructed in the Taragarh valley to open up the reserve, and repairs to the forest inspection paths in the Nagpahar Reserve were executed.

Buildings.

No new chowkies were made during the year. Repairs to old chowkies were made, when required, at a cost of R19.

Rupees 317 were spent under this head. Nearly the whole of it went to defray the pay of the two Meteorological Observers.

Other works.

Meteorological observations and other experiments.—After two years of extreme drought the rains were unusually good everywhere. But the springs were not generally affected, and all the experimental wells were dry.

Rainfall.

Mr. Murray, Meteorological Reporter to the Government of the North-Western Provinces and Oudh, inspected the forest observatories in Ajmere and Merwara during the year, and will probably pay a second visit during the ensuing cold weather to observe the results of the improvements which he suggested and which have mostly been carried out.

Yield and working.—Fourteen thousand one hundred and sixty-one cubic feet of timber, 267,495 cubic feet of fuel, 12,996 bamboos and other produce of the value of R77,351 were removed from the forests, showing a marked increase under each head over the figures of the previous year.

Outturn.

The following statement gives details of the produce removed free by right-holders :—

Free grants.

	Cubic feet.	Estimated value.
		R
Timber for household and agricultural purposes—	3,335	227
Minor produce—		
(*a*) Grass	...	68,393
(*b*) Grazing	...	912
TOTAL	3,335	69,532

The estimated value of these grants in the preceding year was R42,061, and in 1890-91 it was R22,118.

Financial Results.—In the following table the receipts and charges for the last six years are compared :—

Receipts and charges.

	1887-88.	1888-89.	1889-90.	1890-91.	1891-92	Forest year (15 months), 1892-93.
	R	R	R	R	R	R
Receipt	14,293	13,574	11,592	15,266	19,799	16,909
Expenditure	18,898	15,676	12,701	12,720	13,986	18,771
Deficit or Surplus	−4,605	−2,102	−1,109	+2,546	+5,813	−1,862

It will be seen that the receipts fell from R19,799 during 1891-92 to R16,909 during the year 1892-93 under report. The reduction occurred chiefly under the following heads :—

	R
IId—Grazing and grass	7,529
Va.—Fines and forfeitures	407
Vc.—Other sources	320
Total decrease	8,256
Deduct—Increase under other sub-heads	5,366
Net decrease	2,890

The estimated value of the produce removed from the reserves by right-holders and others was R73,910 against R42,455 in the preceding twelve months.

The total expenditure was exceeded by R4,785 that of the previous year as shown below:—

	1892-93.	1891-92.	Difference.
	R	R	R
A.—Conservancy and works	2,371	2,922	—551
B.—Establishment	16,400	11,064	+5,336
TOTAL .	18,771	13,986	+4,785

This was due partly to the fact that the working expenses, pay and allowances of the Working-plan Officer (Mr. Coventry) deputed to prepare the final working-plan were debited against the receipts for the period under report, and partly also to the fact that the figures cover a period of fifteen months instead of twelve months.

GENERAL REMARKS.

The Extra Assistant Conservator of Forests, Ajmere-Merwara, inspected the Sirohi Forests at Mount Abu, at the request of the Resident, Western Rajputana States. His report shows satisfactory progress since the reservation of the forests in 1890.

The students of the Dehra Dun Forest School paid a third visit to Ajmere-Merwara, under Mr. A. Smythies, the Deputy Director of Forests.

Five miles of spoil bank along the new Ramsar Feeder were sown and planted, chiefly with shisham, mulberry, mango, jamun; also babul, nim, and khejra.

A. MARTINDALE,
Offg. Commissioner and Conservator of Forests,
Ajmere-Merwara.

PROGRESS REPORT OF FOREST ADMINISTRATION IN AJMERE-MERWARA FOR THE YEAR 1892-93.

INTRODUCTION.

The present report is drawn up for the forest year extending from 1st April 1892 to 30th June 1893, instead of for the financial year, as usually done, in accordance with Government of India Circular No. 16F., dated 7th June 1892. The information given in the report therefore relates to fifteen months instead of twelve.

2. The general progress in forest work during 1892-93 is briefly summarised as follows.

3. After two years of continued scarcity there have been good rains during the year, which were favourable both for fodder grass and natural reproduction.

4. The total area of reserved and unclassed forests was practically the same as last year—139 and 8 square miles respectively.

5. The subject of village reserves received due attention, and although the proposals of last year fell through, fresh proposals for reserving some 2,000 acres of village waste land, under Regulation I of 1892, are under consideration.

6. The record of forest rights in its revised form is being checked by the District Civil Officers, and every effort is made to make it complete and correct in every detail.

7. A working-plan was drawn up by a special officer, whose services were temporarily transferred from Berar.

8. The number of forest offences shows a small increase over the previous year. Grazing was restricted to 3 out of 24 forest reserves in accordance with the wishes of Government, 44 per cent. of the total reserved area being closed against 1 per cent. in 1892.

9. A large area was consequently attempted to be protected, and the cost of protection was '28 pies per acre more than last year. Altogether three fires occurred, which burnt an area of 23 acres. The damage done was fortunately not much.

10. The net addition to the area under artificial reproduction amounted to 91 acres, *i.e.*, sowing 78 acres and planting 13 acres.

11. Fourteen thousand one hundred and sixty-one cubic feet of timber, 267,495 cubic feet of fuel, 12,996 bamboos, and other produce to the value of R77,351 were removed from the forests, showing a marked increase under each head over the preceding year. These figures include 3,335 cubic feet of timber and 1,093,230 bundles of grass to the estimated value of R68,554, removed by right-holders free of charge under section 4 (*c*) of the Ajmere Forest Regulation.

12. The financial results were—Revenue R16,909; expenditure R18,771; deficit R1,862.

CHAPTER I.

EXTENSION AND CONSTITUTION OF STATE FORESTS.

Reserved forests.

13. (*i*) *Alteration of area.*—A boundary dispute in the Beliawas Forest Reserve between British Merwara and the Native State of Meywar was settled in favour of the Meywar Darbar. The area of the Beliawas Reserve was thereby reduced by 50 acres, and the total area of reserved forests from 89,228 acres to 89,178 acres.

Unclassed forests.

14. Unclassed forests are of the nature of village reserves or areas taken up for plantation purposes, but not acquired under the Ajmere Forest Regulation. There was no change in the areas of such forests.

15. (*a*) *Village Reserves.*—Proposals for the establishment of a village reserve at Rajgurh, referred to in last year's report, have failed. The Raja was in favour of the proposal, but the villagers were against it.

16. Fresh proposals for reserving about 2,000 acres of waste land belonging to eleven different villages have been submitted to the Collector, Ajmere. The area would form two reserves, each about 15 miles long, and would prove very

useful in supplying fuel and grass to the villagers concerned. The majority of villagers have consented to the proposal.

17. (*b*) *Other areas.*—There was no change, and further remarks appear unnecessary.

18. (*ii*) *Forest Settlements.*—The record of forest rights revised last year is being carefully gone through in the office of the Assistant Commissioner, Ajmere, to whom it was sent for examination.

19. The area under cultivation within forest limits (=672 acres) given in the last year's report has not therefore been adopted in the present report.

20. (*iii*) *Demarcation.*—Boundary pillars were maintained and necessary repairs were made. The expenditure was R17-6-6.

Boundary Pillars.

Boundaries.

21. The following repairs to boundary fences were made at a total cost of R100 :—

District.	Name of Reserve.	Length repaired.
Ajmere	Mohwabir	18,540
	Nagpahar	11,250
Merwara	Balad	60
	Total	29,850, or about 6 miles.

22. (*iv*) *Surveys.*—No survey work was done during the year.

CHAPTER II.

MANAGEMENT OF STATE FORESTS.

I.—Regulation of Management.

(*a*) *Working-Plans and their control.*

23. Mr. E. M. Coventry, Assistant Conservator of Forests, was deputed from Berar to draw up a working-plan for the Ajmere-Merwara Forests. He reported his arrival on 7th January 1893, and after a complete inspection of the reserves, prepared and submitted his report to the Commissioner and Conservator of Forests, Ajmere, on the 20th April 1893.

(*b*) *Annual Plans of Operations.*

24. The Annual Plans of Operations had been drawn up for the official year 1892-93. The present report relates to the forest year. This is how more area was cut for coppice in the Nagpahar and Chang Forest Reserves and a larger number of bamboos sold from the Todgurh and Dewair Forests than the plans of operations prescribed.

25. The nursery at Bir was not given up as proposed.

II.—Working of the Year.

(*a*) *Communications and Buildings.*

Buildings.

26. Forest chowkies were looked to, and the necessary repairs made at a cost of R19.

Roads and paths.

27. To open the Tarragarh Valley Reserve a cart-road, about half a mile long, was made at a cost of R12-9.

28. The forest inspection paths in the Nagpahar Reserve were repaired, the expenditure being R37-5.

(b) *Protection of Forests from injury.*

(i) *General Protection and Breaches of Forest Law.*

Cases taken into Court.

29. The subjoined table compares the number of offences tried by Magistrates during the two years:—

Nature of Offences.	Number.		Increase or Decrease
	1891-92.	1892-93.	
Injury to forest by fire	1	1	...
Unauthorised felling, etc.	76	157	+81
Illicit grazing	6	3	—3
Other offences	3	...	—3
Total	86	161	+75
Convictions	83	158	...
Percentage of convictions	97	98	...

Cases compounded.

30. The number of cases compounded by the Forest Officer was—

Year.	Cases compounded		Average compensation.	
	No.	Amount of Compensation.	Per case.	Per man.
		R	R a. p.	R a. p.
1891-92	53	97	1 13 3	0 9 4
1892-93	16	27	1 10 0	0 7 4
Difference	—37	—70	—0 3 3	—0 2 0

31. The total number of forest offences was 177 against 139, or 38 more than in the previous year. The increase was chiefly in the Todgurh tehsil, where villagers abused the privilege granted to them under the Commissioner's orders for the collection and sale of *dry* wood free of charge in view of the scarcity which lasted up to the rains of 1892. In spite of repeated warning *green* wood was cut, and the offenders had to be taken to the courts and punished.

(1) *Under the Indian Penal Code.*

Cases challaned under other Acts

32. One man was prosecuted for shooting without a pass in the Kotra Forest Reserve under section 447, Indian Penal Code. He was fined R4. In another case of theft one man was chal'aned under section 379, Indian Penal Code, for cutting a head-load of green wood, and was sentenced to 20 stripes.

(2) *Under the Cattle Trespass Act.*

33. Fourpersons were prosecuted for releasing cattle under section 24 of the Cattle Trespass Act in the Dewair Forest Reserve, and were fined R22.

Cattle trespass

34. The following statement compares the number of cattle impounded for trespass during the two years :—

Year.	Number of Cattle			Total	Pound receipt.
	Cows and buffaloes	Goats and sheep.	Others.		
					R
1892-93	836	933	157	1,926	151
1891-92	3,377	1,992	73	5,442	484
Difference .	—2,511	—1,059	+84	—3,516	—333

35. Extensive grazing, but chiefly the abundance of grass owing to the exceptionally good rains last year, accounts for the decrease in the number of cattle impounded.

(ii) Protection from Fire.

36. Three fires took place during the year, burning in all an area of 23 acres. Ten acres were burnt in the Madar Hill Reserve, most probably by some visitors to the shrine at the Madar Temple. The offender could not be traced. The other two fires occurred in the Dewair Reserve, burning 5 and 8 acres of forest respectively. In both cases the fire lines had been burnt, but the fires were still burning in some places, which being left unprotected escaped and burnt the forest. The Forester in charge, whose conduct was inexcusable, was dismissed, and three forest guards were heavily fined.

37. Prompt measures were taken to extinguish the fires. The damage done was not extensive, only the inferior kinds of grass having been burnt.

38. The results of fire conservancy for the two years may be thus compared :—

	Dry season of 1892.	Dry season of 1893	Differences
	Acres.	Acres.	Acres.
Area actually protected (1) By a special establishment	52,151	59,055	+6,904
Area actually protected (2) By ordinary establishment .	37,077	30,100	—6,977
Area burnt	*Nil*	23	+23
Total area attempted to be protected .	89,228	89,178	—50*

* Decrease due to the exclusion of 50 acres from the Beliawas Reserve (*vide* Form No. 46)

39. The total cost of fire protection was R136-2-8 (pay of fire watchers), or ·44 pies per acre against ·16 pies per acre in the previous year.

Explanation of increased cost of protection.—(*i*) A larger area was closed to grazing, 38,875 against 1,182 acres in the previous year; (*ii*) a large quantity of grass was left uncut by villagers, though full time allowed by the Register of Rights was given to them for cutting, the reason being that the rains were good and grass was plentiful even outside the forests.

40. In Dewair one man was prosecuted for lighting fire to prepare "bharbands" of gol bark, and was fined 8 annas.

(iii) Regulation of Grazing and Protection from Cattle.

41. Grazing was allowed twice during the year under report:—

(i) In 1892 grazing allowed in the preceding year from 1st January 1892 in nearly all the forest reserves was continued up to the rains.

(ii) In 1893 grazing was allowed to a limited extent, only in three out of fifteen reserves, from 1st March to 30th June, *viz.*, in Todgurh, Dowair, and Beliawas Reserves.

42. The following statement shows the percentage of area closed and the acreage per head of area grazed:—

Year.	Total area of reserved forests.	Area closed to grazing.	Percentage of area closed to grazing.	Number of cattle admitted.	Area opened to grazing.	Acreage per head of area grazed.	Time allowed for grazing.
1892 . .	89,228	1,182	1·3	27,128	88,046	3	6 months.
1893 . .	89,178	88,875	43·6	3,150	50,303	16	4 months.
Difference .	−50	+37,693	+42·3	−23,978	−37,743	+13	...

43. Free grazing was allowed to the extent permitted by the Record of Forest Rights. In one instance, in the case of a hamlet in the Todgurh Reserve, the sanctioned number of cattle was increased by 14, for which punitive rates were charged.

44. The cattle of hamlets which lie within the forests are monthly checked, and in no case is the number of cattle allowed to exceed the number permitted under the settlement.

(c) Improvement of Forest Growth.

45. *(i) Natural Reproduction.*—The year 1893 was a favourable year for natural reproduction. The grazing also was neither extensive nor heavy. The result was that numberless seedlings were to be seen under parent trees of *kumta*, *dhankra*, *kalia*, and *dhak*, of which, it is hoped, a large number will eventually survive. Bamboo reproduction was remarkably good. The progress in some of the pattern areas was also noticeable.

46. Grazing, which, as has been shown in the previous reports, bears detrimentally on the reboisement of these forests, will, in future, unless circumstances become extremely unfavourable, be allowed to a limited extent in the three most advanced tracts only, *viz.*, Todgurh, Dewair, and Beliawas. In this way all the forests will have rest, and considerable improvement might be expected in natural regeneration.

47. *(ii) Artificial Reproduction.*—Cultural operations extended over 148 acres with the following results:—

	Acres.	Failures, Acres.	Net addition during the year.
Sowing	135	57	78
Planting	13	...	13
Total .	148	57	91

48. The details of these operations are given below :—

Sowings.

Forest.	Species sown.	Area sown in acres.	Method of sowing.	Distance apart.	Success.	Remarks.
Mohwabir . .	Khair, khejra, babul .	30	By dibbling* in patches	5′	50%	* In the fuel cuttings of 1889-90-91.
Makerwali-Hokran	Nim, ber, and mixed seed of khair kaarvlai	50	Broadcast	5′	50%	
Borwar . .	Babul, arinja . .	33	By dibbling in patches.	5′	75%	
Kotra . .	Ber, nim . . .	7	Do.	5′	75%	
Sheopura . .	Babul, arinja . .	2	Do.	5′	50%	
Anspahar . .	Babul . . .	4	Do.	5′	50%	
Behawas . .	Babul, arinja . .	5	Do.	5′	50%	
Amner . .	Ber, kalia, khair .	1	Do.	8′	40%	
Todgurh . .	Nim, kalia, khair, babul	1	Do.	5′	60%	
Dewair . .	Ditto . .	2	Do.	8′	70%	
	Total .	135	.....	...	.....	.....

Planting.

Forest.	From which nursery planted.	Species.	Number of plants.	Method of planting.	Distance apart.	Number of plants alive.	Remarks.
Mohwabir .	Sendra and Pokar.	Lime (145), plantains (40), and bamboos (15).	200	In pits	5′	200	In the Mohwabag Garden.
Makerwali-Hokran.	Pokar . .	Shisham 550, mangoes 50.	600	Do.	20′	600	
Srinagar .	Do. .	Shisham . .	191	Do.	20′	191	
Danta . .	Bir . .	Do. .	110	Do.	20′	110	
Jalia . .	Pokar . .	Do. .	242	Do.	20′	242	
Balad . .	Do. . .	Do. .	70	Do	20′	70	
Chang .	Sendra . .	Mango, shisham, cheril, etc.	90	Do.	20′	90	
Todgurh .	From forest .	Bamboos . .	60	Do.	8′	50	
Dewair .	Do. .	Do. . .	250	Do.	8′	200	
		Total .	1,813	...	...	1,753	.....

49. The cost of sowing and planting amounted to R791 against R513 in the previous year. This also includes the cost of watering trees previously planted.

50. The nurseries at Pushkar, Bir, and Sendra were maintained as usual, A new nursery was started at Jalia in the Jalia Reserve.

Nurseries.

51. The following were the receipts and charges :—

	Receipts. R	Charges R
1892-93	714	762
1891-92	373	690
Increase .	344	72

52. The following statement shows the number of plants issued to private individuals or planted in forests from each nursery during the year, as well as the number fit for transplanting during the rains :—

Name of Nursery.	Planted in forests.	Issued to private individuals.		On 30th June fit for planting during rains.	Total.
		Free.	On payment.		
Pushkar . . .	1,158	1,052	1,089	3,000	6,299
Bir	110	16	6	1,500	1,632
Sendra . . .	235	...	205	300	740
Jalia	...	...	...	1,000	1,000
Total .	1,503	1,068	1,300	5,800	9,671

53. (*iii*) *Early thinnings.*—No early thinnings were done during the year.

54. (*iv*) *Experiments.*—One pound of *Pinus longifolia* and 1lb of deodar seed were received from the District Forest Officer, Hazara Division (Punjab). The seeds were sown in the Pushkar, Jalia, and Sendra nurseries. Both the kinds germinated well, but the deodar seedlings subsequently died off.

55. Twenty-six varieties of *Eucalyptus* seed were received from the Superintendent, Botanical Gardens, Saharanpur. The seeds germinated freely, and the seedlings are doing well.

(*d*) *Exploitation of Major Forest Produce.*

56. The major forest produce exploited during the year consists of timber, firewood (green wood and dry), and bamboos.

57. (*i*) *Clear or regeneration fellings.*—No such fellings were undertaken.

58. (*ii*) *Selection fellings.*—Fourteen thousand one hundred and sixty-one cubic feet of exploitable timber of the following kinds were removed by purchasers, right-holders, and others from certain forest reserves, chiefly in Merwara :—

Timber.

Dandas.	Thanbas.	Balinda.	Bali.
10,841	38	92	891
Bundles of firagan.		Saler trees.	Shisham.
179		415	1
Other trees.	Ploughs.	Plough poles.	Choo.
27	12	6	25

and 27 miscellaneous pieces.

59. Eight thousand seven hundred and thirty-six exploitable bamboos were removed by selection from the following forests by purchasers against 8,133 in the last year :—

Bamboos.

Nagpahar	568
Tarragarh Valley	420
Todgurh	5,098
Dewair	2,650
Total .	8,736

60. (*iii*) *Improvement fellings.*—Heavy fellings were made in the Jalia and Balad Reserves (area 50 acres) with the view (1) to relieve the straight and sound but suppressed babul trees capable of yielding good timber; (2) to remove the inferior *farash* (tamarisk) and gradually replace it by a crop of useful trees such as shisham, mango, bamboo, etc. The trees were felled and removed by contractors under departmental supervision.

Firewood.

61. To improve the quality of the existing bamboo crop, 4,260 bamboos were sold to contractors from the Nagpahar Forest Reserve. It is proposed to follow the same principle in the case of the other reserves where bamboo similarly suffered by reason of the dryness of the years 1890 and 1891.

Bamboos

62. (*iv*) *Coppice fellings.*—The following areas were clean felled for coppice, the wood being cut and removed by contractors :—

District	Forest.	Area coppiced, acres	Rate. @	Rate. per	Quantity removed. Camel-loads	Quantity removed. Cart-loads	Quantity removed. Cubic feet.	Amount realized	Remarks.
			R a p					R	
Ajmere	Mohwabir	10	6 0 0	Acre	...	...	1,500	60	Sold standing by area.
	Madar Hill	10	5 0 0	"	...	...	1,500	50	
	Nagpahar, Western slope	80	10 0 0	...	...	...	10,000	800	
	Nagpahar, Eastern slope	20	8 0 0	...	...	...		160	
Merwara	Chang	328	1 3 6 and 0 9 9	Cart-load / Camel-load	3,282	328	59,070	2,400	Sold by camel-loads and cart-loads.
	Bagri	110	0 5 6	Do.	2,019	...	43,785	1,000	
	Total	508		...	...	...	115,855	3,970	
	Last Year	60		...	...	...	11,500	530	

The trees were cut flush with the ground and the stools properly shaped. No standards were left for seed. Where blank spots occur, they are filled by sowing, which method is more sure of success.

63. (*v*) *Unregulated fellings.*—The following quantities of dry fallen wood were either sold or granted free :—

District.	Sold by Permits. Head-loads.	Sold by Permits. Donkey-loads	Sold by weight or auction	Granted free.	Total quantity in cubic feet.	Amount
						R
Ajmere	51,157	...	17,440	...	104,280	2,607
Merwara	19,809	621	12,800	800	47,360	1,166
Total	70,966	621	30,240	800	151,640	3,773

(*e*) *Extraction and Transport of Major Forest Produce by Land and Water.*

64. All the produce was either consumed in the district or taken to the principal markets (Ajmere, Beawar, and Nasirabad) from the forests by camels, carts, donkeys or head-loads for which roads and paths exist in the forest. In the case of coppice fellings in the Todgurh Forest Reserve, the produce was first conveyed by camels to Haripur (14 miles), a station on the Rajputana-Malwa Railway, and thence carried by rail to Ajmere, which is a distance of 53 miles.

(*f*) *Exploitation of minor Forest Produce.*

65. (*i*) *Extraction of fodder.*—Rupees 1,685 worth of grass were sold from the forests in Ajmere-Merwara without interfering with the rights of villagers. The following are the particulars:—

Sale of fodder grass.

	Value. ₹	
Standing grass from Mohwabir, Nagpahar, and Danta (by public auction)	1,335	Villagers have no grass rights in these areas.
From Jalia and Balad (304 head-loads) . . .	11	
From plantation and coppiced areas (by auction and by head-loads)	339	Cutting allowed under departmental supervision.
TOTAL .	1,685	

66. Ten lakhs ninety-three thousand two hundred and thirty head-loads of grass (estimated value ₹68,327) were removed by right-holders. Cutting was allowed by tickets at the rate of one ticket per plough (pair of bullocks) for six weeks in Ajmere, commencing from one week after the Pushkar Fair, and for four months in Merwara from 1st November to 28th February.

Cutting grass by right-holders and by free grantees.

The inhabitants of Kanas were allowed to cut 140 and those of Hokran 210 bundles of munj grass from the sand dunes of Makerwali-Hokran Reserve.

67. The villagers of Jawaja and Jussakhera were allowed to cut 200 maunds of grass for supplies to the camps of District Officers on tour, with the previous sanction of the Commissioner and Conservator of Forests.

Non-right-holders.

68. (*ii*) *Grazing.*—By "regular grazing" is here meant grazing usually allowed on payment to right-holders in the hot season after the grass-cutting is over, not as a matter of right but as a concession at the discretion of the Government.

Regular grazing.

69. There were two such grazing seasons during the year:—

(i) The general grazing allowed from 1st January 1892, on account of the scarcity of fodder then prevailing in nearly all the forest reserves, was continued up to the rains. The following number of cattle were admitted:—

DISTRICT.	Total Forest Area.	Area opened for grazing.	NUMBER OF CATTLE.		TOTAL.
			Right-holders.	Outsiders.	
	Acres.	Acres.			
Ajmere . . .	17,670	16,819	4,046	593	4,639
Merwara	71,558	71,227	21,861	628	22,489
TOTAL .	89,228	88,046	25,907	1,221	27,128

(ii) In 1893 grazing was permitted in the Todgurh, Dewair, and Beliawas Reserves from 1st March to 30th June, and all other forests were closed in accordance with the policy of Government

of India, referred to in the Chief Commissioner's review of the last Annual Report. The following number of cattle were admitted :—

District.	Total Forest Area.	Area opened for grazing.	Number of Cattle.		Total.
			Right-holders.	Outsiders.	
	Acres.	Acres.			
Ajmere	17,670	...	...	...	...
Merwara	71,508	50,303	3,150	...	3,150
Total	89,178	50,303	3,150	...	3,150

70. Grazing dues for 1892 and 1893 were realized during the year at 2 annas per cow and 4 annas per buffalo from right-holders, 4 annas per cow and 8 annas per buffalo from outsiders.

71. The following number of cattle were allowed to graze free by right under settlement :—

Free grazing.

Period.	Reserve.	Number of Cattle.		Total.	Area in acres.	Names of villages or hamlets entitled to graze.
		Cows.	Buffaloes.			
For 8 months	Rajgurh . .	321	9	330	110	Naharpura, Kothaj, and Mayapur.
	Srinagar . .	711	133	844	817	Srinagar.
	Amner . .	309	89	398	199	Amner and Ajeetgarh.
For 15 months	Todgurh . .	654	139	793	1,730	Jaspalan, Modia, Alanjeryan, Sárupan, and Bóyankhet.
	Bánjari Mandlar	59	11	70	200	Bari-ka-chaura.
	Behawas . .	42	...	42	130	Motaila.
	Sheopura . .	20	...	20	60	Jaita-ka-baria.
	Total .	2,116	381	2,497	3,246	...

72. Bujarail villagers were allowed to graze 138 cows and 49 buffaloes along the Chippidevinál in the Todgurh Reserve for three months in winter, on payment of fees at one anna per cow and two annas per buffalo. There is always a heavy traffic along this stream, and as a fire line is difficult to burn, it was considered that grazing would serve the same purpose much better.

Other grazing.

73. Thirty-eight thousand one hundred and forty-two bullocks, 111 buffaloes, 47 ponies, 2,501 donkeys, 388 camels, and 369 goats and sheep, or in all 41,558 cattle, crossed the Dewair pass with goods, chiefly salt from Marwar and Meywar, and R224 were realised as grazing dues. The rates charged are—

Per bullock, buffalo, donkey or pony . . . . . 1 pie.
Per sheep, goat, or camel . . . . . 3 pies.

74. Rupees 4 were received from one hamlet in the Todgurh Reserve for grazing 14 cattle in excess of the number allowed under the settlement. Rupees 14 were received as grazing fees for one bullock belonging to the District Board.

75. (*iii*) *Miscellaneous produce.*—Other minor produce was removed to the value of R1,355. Full particulars are given in Form 58.

CHAPTER III.

GROSS YIELD AND OUTTURN OF FOREST-PRODUCE.

76. (*i*) *Departmental operations.*—No departmental operations were undertaken during the year.

77. (*ii*) *Removal of produce by purchasers.*—Five thousand six hundred and ninety-nine dandas, 7 thambas, 1 balinda, 769 ballis, 67 bundles of firangan, 109 saler trees, 1 shisham and 27 other kinds of trees = 10,402 cubic feet, or double the last year's quantity, were sold from certain forests in Ajmere-Merwara. The sum realized was R382 against R186 in the previous year.

Timber.

78. Two hundred and sixty-six thousand six hundred and ninety-five cubic feet of firewood (green and dry) were sold for R7,740, or 147,997 cubic feet in excess of the previous year. This was due to the rise in demand for fuel, as with the falling of good rains, imports of firewood from neighbouring villages suddenly ceased.

Fuel.

79. (*a*) *Green wood.*—One hundred and fifteen thousand eight hundred and fifty-five cubic feet of green wood were sold from the forest reserves mentioned in paragraph 62 of this Report. The following figures compare results with the previous year :—

Year.	Quantity of wood removed.	Amount realised.
		R
1892-93	115,855	3,969
1891-92	11,500	530
Increase	104,355	+3,439

80. Besides, 12,480 cubic feet of wood were obtained by improvement fellings from Jalia and Balad Reserves. The amount realised was R312.

81. (*b*) *Dry wood.*—The following statement shows the quantity of dry wood removed during the year as compared with the preceding year :—

	Quantity removed.		Total.	Amount.
	Ajmere.	Merwara.	Cubic ft.	R
1892-93	104,280	34,080	138,360	3,459
1891-92	46,070	61,128	107,198	2,358
Increase .	+58,210	—27,048	+31,162	+1,101

Bamboos.

82. Eight thousand seven hundred and thirty-six green and 4,260 dry, or in all 12,996, bamboos were sold for R266 against 8,133 bamboos sold last year for R209.

Grass and grazing.

83. The following statement compares the revenue realized from these sources during the past two years.—

Year.	Grass	Grazing.	Total
1892-93	1,685	596	2,281
1891-92	2,275*	1,127	3,402
Difference	—590	—531	—1,121

* This amount excludes R2,700 received from the Military Department for grass supplied in 1889-90.

84. On account of good rains, grass was abundant and cheap outside the forests; hence the decrease in the value of grass sold during the year. In 1893 no cattle belonging to non-right-holders were admitted for grazing, and in 1892 fewer cattle grazed than in the previous year (1891). Consequently the grazing fees fell from R1,127 to R596.

Other minor produce.

85. The revenue under this head was R1,856 against R1,330 in the preceding year.

86. (*iii*) *Free grants.*—The following free grants were made during the year :—

Description of produce	No or quantity.	Estimated value.	To whom granted.	Purpose for which granted.
		R		
Timber dandas	500	27	Tashildar, Todgarh.	For construction of a Patwarkhana at Baghana.
„ balindas	60			
„ bali	24			
Grass (maunds)	200	40	Villagers of Waja and Jessaknera.	For supplies to camps of District Officers on tour.
Fuel („)	200	8		
Plants (No.)	139	17	Revd. Skelton	For planting in the cemetery.
„ („)	129	16	Villagers	For planting round wells.
„ („)	800	100	District Board	For planting along the spoil bank of Ramsar feeder.
Seed (maunds)	2			
Total	...	208	...	

Free

87. (*iv*) *Removal of produce by right-holders and under privileges.*—The following forest-produce was removed by right-holders free of payment :—

Description of produce.	No. or quantity.	Value.	Remarks.
		R	
Timber for household purposes (c. feet)	3,227	206	Under the Forest Regulation.
„ agricultural purposes („)	108	21	
Fodder grass (bundles)	1,093,230	68,327	Under the rights of settlement.
Munj grass („)	350	66	
Grazing (cattle)	3,692	912	
Total	...	69,532	...
In 1891-92	...	42,061	...

88. The following number of cattle belonging to right-holders were also permitted to graze on payment at privileged rates—*i.e.*, half the ordinary rates :—

On payment.

Year.	No. of cattle.	Grazing fees at privileged rates.	Value at full rates.
		R	R
1892	25,907	3,785	7,569
1893	3,150	451	903
Total	29,057	4,236	8,472

89. (*v*) *Summary of produce removed from the forests.*—The following is the summary of forest-produce removed from forests during the year :—

Agency.	Timber.	Fuel.	Bamboos.	Grass and grazing.	Other minor produce.
	C. ft.	C. ft.	No.	R	R
Government	...	...	...	...	...
Purchasers	10,492	266,695	12,996	2,281	1,356
Free grants	334	800	....	40	133
Right-holders	3,335	...	...	73,541	...
Total	14,161	267,495	12,996	75,862	1,489
In 1891-92	7,302	191,098	8,133	55,913	1,330
Difference	+6,859	+76,397	+4,863	+19,949	+159

CHAPTER IV.

FINANCIAL RESULTS.

90. The following statement shows the financial results of the year as compared with the last five years :—

	Financial years (12 months).					Forest year (15 months), 1892-93.
	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	
	R	R	R	R	R	R
Revenue	14,293	13,574	11,592	15,266	19,799	16,909
Expenditure	18,898	15,676	12,701	12,720	13,986	18,771
Deficit	4,605	2,102	1,109	...	...	1,862
Surplus	...	...	...	2,546	5,813	...

While the expenditure of the current year exceeds that of the previous year by R4,785, the revenue is less by R2,890, so that there was a deficit of R1,862 on the year's working.

Revenue.

91. The decrease in the receipts may be thus explained :—

	R
Decrease under—	
II*d*.—Grazing and grass	7,529
V*a*.—Fines and forfeitures	407
V*c*.—Other sources	320
Total decrease	8,256
Increase under other sub-heads	5,366
Net decrease	2,890

92. If the full value of forest-produce removed by right-holders and others, free or at privileged rates, be also taken into account, the total receipts would be R16,909+R73,910=R90,819.

Expenditure.

93. The total expenditure was R4,785 greater that last year :—

	1892-93.	1891-92.	Difference.
	R	R	R
A.—Conservancy and Works . . .	2,371	2,922	—551
B.—Establishment	16,400	11,064	+5,336
TOTAL .	18,771	13,986	+4,785

94. It will be seen that while there was a saving of R551 under A.—Conservancy and Works, there was an increase of R5,336 under B.—Establishment, due chiefly to (1) the pay and allowances of the Working-Plans Officer, (2) to the expenditure being for fifteen instead of for twelve months as in the previous year.

95. The receipts and charges under the main heads compare as below for the past two years :—

YEAR.	I.—TIMBER AND OTHER DEPARTMENTAL OPERATIONS.		II.—OTHER SOURCES.		III.—Formation, Protection, and Improvement of Forests.	TOTAL.	
	Receipts.	Charges.	Receipts.	Charges.		Receipts.	Charges.
			R	R	R	R	R
1891-92 . . .	...	...	19,799	4,432	9,554	19,799	13,986
1892-93 . . .	...	...	16,909	6,560	12,211	16,909	18,771

CHAPTER V.

FOREST ADMINISTRATION.

96. *Establishment.*—The charge of the division was held by Sirdar Hira Singh, Extra Assistant Conservator of Forests, who was promoted from third to second grade with effect from 23rd July 1892.

97. *Subordinate establishment.*—

(i) *Executive staff.*—Babu Nandmall, Forest Ranger, was promoted to third grade during the year. I am much indebted to him for giving every help in the preparation of a working-plan for these forests. He was especially good in surveying and drawing, which latter he did very neatly.

(ii) *Protective staff.*—Foresters and Guards, with one exception, have all worked satisfactorily. Dhana, Forester in charge of the Dewair Reserve, was dismissed for neglect in burning fire-lines.

98. *Office establishment.*—Babu Ansaf Ali, Forest Clerk in charge of English Office, whose good services have been always especially mentioned, was recommended for promotion to R60 in the reorganization scheme of office establishment submitted in accordance with the Government of India Circular No. 15, dated 7th July 1893.

Office Munshi Lalla Ram Narain continued to give satisfaction.

99. *Health of establishment.*—The health of the establishment was generally good throughout the year.

CHAPTER VI.

METEOROLOGICAL OBSERVATIONS AND OTHER EXPERIMENTS.

100. *Rainfall.*—After two years of extreme dryness (1890 and 1891) good rains have everywhere fallen during the year. Appendix A shows the rainfall registered by the Forest Department during the year 1892.

TEMPERATURE AND HUMIDITY.

101. Observations of temperature and humidity were continued as before. The results are recorded in Appendices B, C, and D.

102. Mr. Murray, Meteorological Reporter to the Government of North-Western Provinces and Oudh, paid an inspection visit to the Forest Observatories in Ajmere and Merwara. He arrived here on the 4th March 1893 and left on the 6th following.

103. The following improvements were suggested by him and have been carried out:—

(i) To give up the pair of sheds in the old Forest Nursery at Ajmere.

(ii) To transfer and erect the above sheds at Mohwabir on the site now occupied by small sheds which should be taken down.

(iii) The instruments at Mohwabir to continue to be used, except the maximum and the wet minimum in the "outside shed," which should be replaced by the maximum and wet minimum at present in use in the old nursery observatory "under trees."

104. At Raoli the change both of sheds and sites was also considered necessary to give a greater contrast of condition between inside and outside sheds. The selection of site will be made by Mr. Murray on his next visit in December, the object of which will be to further test the instruments and inspect the observations generally. The sheds will also be changed then.

WATER-LEVEL IN WELLS.

105. The year 1891 being as dry as the year preceding it, there was no water in any of the experimental wells. Even well No. 1 in the Mohwabir Reserve dried up during the year.

GENERAL REMARKS.

Forest Officer's visit to the Abu forest.

106. At the request of the Resident, Western Rajputana States, the Extra Assistant Conservator of Forests inspected for a second time the Abu forests in the month of September 1892. A fair amount of progress was observed since the reservation of the forests in June 1890, and further proposals for its improvement were suggested.

Visit of the Forest School to Ajmere.

107. Thirteen European and 42 Native students of the Imperial Forest School, Dehra Dun, under Mr. A. Smythies, Deputy Director, paid a third visit to the Ajmere forests. The chief subjects of study were coppicing, plantation, fire-lines, nurseries, experimental wells, and village birs. The students arrived on 18th and left on 22nd January 1893, after inspecting the forests in the vicinity of Ajmere.

Services rendered for another department.

108. Five miles of spoil bank along the Ramsar (tank) feeder were sown and planted by the Forest Officer for the District Board; 800 plants of different sorts, chiefly shisham, mulberry, mango, and jaman, were supplied from the forest nurseries, including 200 cuttings of farash planted in saline soil. About 2 maunds of seeds, *babul*, *nim*, *khegra*, were sown partly broadcast and partly in patches. The results are very encouraging; the ground appears quite covered within a short space of two years, although 3 out of 5 miles the soil is hard concrete and saline. No charge was made by the Forest Department for the cost of plants and seed supplied, the other expenses being incurred by the District Board.

Shooting-passes.

109. Only three passes were issued for shooting in the forests of Merwara by the District Magistrates of Ajmere and Merwara.

Government of India and Chief Commissioner's Reviews on the Annual Forest Report for 1891-92.

110. With reference to the points noticed in paragraphs 2 and 3 of the Government of India Review on the Forest Report for last year and paragraphs 4 and 5 of the Chief Commissioner's Review of the same report, the following explanations are given:—

(*i*) *Increase of forest offences.*—Same explanation as given in paragraph 31 of the present report.

(*ii*) *Small expenditure on fire-protection.*—Rupees 45 represent the pay of nine fire-watchers entertained in the two biggest reserves, Todgarh and Dewair; for though heavy grazing was permitted, the danger from fire was still great, especially in portions inaccessible to cattle. For other reserves watchers were not needed.

(*iii*) *Grazing throughout the entire year.*—Grazing was allowed from 1st January 1891 and not from 1st January 1892, as erroneously stated in paragraph 28 of the last year's Annual Report.

(*iv*) *Increase of Village Reserves.*
(*v*) *Effect of Regulation I of 1892.*
} Information on these heads is given in the present report.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

ANNUAL FORM No. 46.—[*Prescribed.*]

FOREST DEPARTMENT, AJMERE-MERWARA.

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1892. Acres	Area on 1st April 1892. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 1st July 1893. Acres.	Area on 1st July 1893. Equivalent in square miles.	No. and date of Notification of addition or transfer	Remarks.
			AREA OF RESERVED FORESTS, 1892-93.								
AJMERE-MERWARA.		AJMERE	Mohwabir and Madar Hill	2,736	4	...	...	2,736	4		
			Makerwali-Hokran	2,675	4	...	...	2,675	4		
			Nagpahar	2,479	4	...	...	2,479	4		
			Tarragarh Valley	1,226	2	...	...	1,226	2		
			Srinagar	3,623	6	...	...	3,623	6		
			Danta	1,429	3	...	...	1,429	3		
			Rajosi	1,303	2	...	...	1,303	2		
			Rajgarh	2,199	3	...	...	2,199	3		
			TOTAL	17,670	28	...	...	17,670	28		
		MERWARA.	Dilwara and Chang Gate birs	281	...	...	...	281	...		
			Jalia and Balad	50	...	...	...	50	...		
			Chang	2,947	5	...	...	2,947	5		
			Borwar-Kotra and Silibera	4,657	7	...	...	4,657	7		
			Sheopura	2,786	4	...	...	2,786	4		
			Anspahar	1,639	3	...	...	1,639	3		
			Bilwas	3,336	5	...	50	3,286	5		
			Amner	4,114	6	...	...	4,114	6		
			Bangari-Mandlan	4,731	8	...	...	4,731	8		
			Todgarh	34,049	53	...	...	34,049	53		
			Dewair	12,968	20	...	...	12,968	20		
			TOTAL	71,558	111	...	50	71,508	111		
			GRAND TOTAL	89,228	139	...	50	89,178	139		
			Village Reserves.								
			AREA OF UNCLASSED FORESTS, 1892-93.								
		AJMERE	Sedria-Parbatpura	400	1	...	...	400	1		
			Makhupura	440	1	...	...	440	1		
			Danta	70	...	...	...	70	...		
			Sringar	1,600	2	...	...	1,600	2		
			Saradhna	395	...	...	...	395	...		
			Chachiawas	1,000	2	...	...	1,000	2		
		MERWARA.	Bagri	400	1	...	...	400	1		
			Kot-Kirana	800	1	...	...	800	1		
			Dadola	200	...	...	...	200	...		
			TOTAL	5,305	8	...	...	5,305	8		
			Other Areas taken up for Plantation purposes.								
		AJMERE	Shikast Masjid	26	...	...	...	26	...		
			Bir Nursery	4	...	...	...	4	...		
		MERWARA.	Parade Plantation	8	...	...	...	8	...		
			Sendra Nursery	1	...	...	...	1	...		
			TOTAL	39	...	...	...	39	...		
			GRAND TOTAL OF UNCLASSED FORESTS.	5,344	8	...	...	5,344	8		

HIRA SINGH,

Extra Asstt. Conservator of Forests, Ajmere-Merwara.

FORM No. 48.

FOREST DEPARTMENT, AJMERE-MERWARA.

Record of Demarcation and Maintenance of Boundaries, 1892-93.

DIVISION.	Length of boundaries artificially demarcated during the year.	Length of previously existing boundaries repaired.	Length of previously existing boundaries not repaired.	Total length of artificially marked boundaries at the close of the year.	Length of boundaries not demarcated at the close of the year.	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year.	EXPENDITURE ON DEMARCATION DURING THE YEAR.		REMARKS.
								On new work.	On repairs.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	R	R	
Ajmere-Merwara	...	6	177	183	...	158	341	...	117	

N.B.—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lan within the forests, but not the limits of sub-divisions, such as blocks, compartments, coupés.

HIRA SINGH,

Extra Asstt. Conservator of Forests, Ajmere-Merwara

FORM No. 49.

FOREST DEPARTMENT AJMERE-MERWARA.

Statement of Forest Areas surveyed and under survey during the year 1892-93.

DIVISION.	AREAS SURVEYED AND UNDER SURVEY DURING THE YEAR.																					Areas remaining to be taken under Survey.	Total Forest area at end of the year, as per Form No. 46.	COST.			REMARKS.
	Special surveys—Maps on 4" scale or over by Survey of India Department or Forest Survey Branch.								*Ordinary included in District Surveys.*								*Chain and compass or other surveys by local officers.*														
	WITH INTERIOR DETAILS.					BOUNDARY SURVEYS.			WITH INTERIOR DETAILS.					BOUNDARY SURVEYS.			WITH INTERIOR DETAILS.					BOUNDARY SURVEYS.									
	With details of growing stock.		Without details of growing stock.		Total Cost.	Previous.	Of the year.	Total Cost.	With details of growing stock.		Without details of growing stock.		Total Cost.	Previous.	Of the year.	Total Cost.	4-inch or over.		Under 4-inch.		Total Cost.	Previous.	Of the year.	Total Cost.			Previous.	Of the year.	Entire cost of all Surveys to end of the year.	
	Previous.	Of the year.	Previous.	Of the year.					Previous.	Of the year.	Previous.	Of the year.					Previous.	Of the year.	Previous.	Of the year.										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	R	Sq. ms.	Sq. ms.	R	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	R	Sq. ms.	Sq. ms.	R	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	R	Sq. ms.	Sq. ms.	R	Sq. ms.	Sq. ms.	R	R	R	
Ajmere-Merwara	...	...	...	...	...	139	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	139	...	...	...	The maps were prepared by the Revenue Survey Party during the late settlement, and no cost was incurred.

HIRA SINGH,

Extra Asstt. Conservator of Forests, Ajmere-Merwara.

FORM No. 50.

FOREST DEPARTMENT, AJMERE-MERWARA.

Progress made in Working-Plans, 1892-93.

DIVISION.	AREAS FOR WHICH WORING-PLANS HAVE BEEN COMPLETED.		AREAS FOR WHICH WORKING-PLANS ARE BEING COMPILED.		Areas for which Working-Plans have still to be taken in hand.	Total Forest area as in Form No. 46.	Entire cost, per square mile, of Working-Plans completed.	REMARKS.
	At commencement of the year.	During the year.	At commencement of the year.	Taken in hand during the year.				
1	2	3	4	5	6	7	8	9
	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	R	R a. p.
Ajmere-Merwara .	...	139	...	...	...	139	17	*Note*— Pay of Working-Plans Officer, 16th December 1892 to 20th April 1893 . 1,723 0 0 Deputation allowance . 257 0 0 Travelling allowance . . 335 8 6 TOTAL . 2,315 8 6

HIRA SINGH,

Extra Asstt. Conservator of Forests, Ajmere-Merwara.

FORM No. 51.

FOREST DEPARTMENT, AJMERE-MERWARA.

Communications and Buildings during 1892-93.

DIVISION.	NEW WORK UNDERTAKEN DURING THE YEAR.						REPAIRS EXECUTED DURING THE YEAR.						REMARKS.
	BUILDINGS.		ROADS AND PATHS.				BUILDINGS.		ROADS AND PATHS.				
	Description of Building.	Expenditure incurred.	Road or Path, and object of the same.	Length of Road or Path.	Expenditure incurred.	Total Expenditure on new work.	Nature of Repairs.	Expenditure incurred.	Nature of Repairs.	Length repaired.	Expenditure incurred.	Total Expenditure on repairs.	
1	2	3		5	6	7	8	9	10	11	12	13	14
		R		Miles.	R	R		R		Miles.	R	R	
Ajmere-Merwara.	...	...	A road 10 feet wide to cart forest-produce in Taragarh Valley Reserve.	½	13	13	Repairs to Forest Chowkis at— Barinal (Taragarh Valley). Dauta (Dauta Reserve). Rajwa and Malkachaura (in Bellawas). Bagri (Todgarh Reserve) and Baghana (Dewair Reserve).	19	Repairs to inspection paths in Nagpahar Reserve.	4	37	57	

HIRA SINGH,

Extra Asstt. Conservator of Forests, Ajmere-Merwara.

FORM No. 52.

FOREST DEPARTMENT, AJMERE-MERWARA.

Register of breaches of Forest Rules during 1892-93.

FOREST DIVISION.		Cases pending from 1891-92.	NEW CASES OF THE YEAR.						DISPOSED OF DURING THE YEAR.						Cases pending at close of year.	REMARKS.
			Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing without permission, or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	Total cases.	CONVICTIONS.		ACQUITTALS.		TOTAL.			
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.		
Ajmere-Merwara	A.	...	1	157	3	...	161	161	158	366	3	4	161	370	...	
	B.	...	...	13	3	...	16	16	16	59	...	...	16	59	...	
GRAND TOTAL	A.	...	1	157	3	...	161	161	158	366	3	4	161	370	...	
	B.	...	...	13	3	...	16	16	16	59	...	...	16	59	...	
	C.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

N. B.—A means cases taken into Court.
B means cases disposed of under section 9 of the Ajmere Forest Regulation, 1874.
C means undetected cases.

AJMERE;
The 6th September 1893.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

ANNUAL FORM No. 53.—[*Prescribed.*]

FOREST DEPARTMENT, AJMERE-MERWARA.

Area of Forest Tracts protected from Fire during the dry season 1893,—to accompany Report for 1892-93.

DIVISION.	Forest Tracts.	Year in which protection commenced.	Area actually protected up to 15th June 1892.	DURING DRY SEASON OF 1893.			Cost during the season.	REMARKS.
				Area attempted to be protected.	Failures.	Actually protected.		
	Areas protected by special measures.							
	Mohwabir and Madar Hill	1876	...	Acres. 2,736	Acres 10	Acres. 2,726	Rs. 10	
	Nagpahar	1880	2,479	2,479	...	2,479	10	
	Taragarh Valley	1874	1,226	...	...	...	...	
	Rajoni	1880	...	1,303	...	1,303	9	
	Danta	1882	1,429	1,429	...	1,429	10	
	Todgarh	1874	34,049	34,049	...	34,049	60	
	Dewair	1881	12,968	12,968	13	12,955	28	
	Amner	1884	...	4,114	..	4,114	9	
	TOTAL	...	52,151	59,078	23	59,055	136	
	Areas protected by Ordinary Establishment.							
AJMERE-MERWARA.	Taragarh Valley	1874	...	1,226	...	1,226	...	
	Rajoni	1880	1,303	...	...	...	...	
	Rajgarh	1884	2,199	2,199	...	2,199	...	
	Chang	1881	2,947	2,947	...	2,947	...	
	Sheopura	1882	2,786	2,786	...	2,786	...	
	Beliawas	1874	3,336	3,286	...	3,286	...	
	Borwar-Kotra and Siloberi	1882	4,657	4,657	...	4,657	...	
	Anaspahar	1877	1,639	1,639	...	1,639	...	
	Banjari-Mandlan	1884	4,731	4,731	...	4,731	...	
	Amner	1884	4,114	...	...	...	...	
	Mohwabir and Madar Hill	1876	2,736	...	...	...	...	
	Srinagar	1876	3,623	3,623	...	3,623	...	
	Makerwali-Hokran	1884	2,675	2,675	...	2,675	...	
	Dilwara and Chang Gate birs	1876	281	281	...	281	...	
	Jalia and Balad	1891	50	50	...	50	...	
	TOTAL	...	37,077	30,100	...	30,100	...	
	GRAND TOTAL	...	89,228	89,178	23	89,155	136	

NOTE.—This form is for the dry season, and not for the financial year, and therefore the date up to which expenditure is included must be filled in to suit the circumstances of each circle.

AJMERE;
The 6th September 1893.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

FORM No. 54.

FOREST DEPARTMENT, AJMERE-MERWARA.

Area closed and open to grazing during 1892-93.

DIVISION.	AREA IN SQUARE MILES.						REMARKS
	CLOSED TO ALL ANIMALS.		CLOSED TO BROWSERS (CAMELS, GOATS, OR SHEEP).		OPEN TO ALL ANIMALS.	TOTAL AREA.	
	Whole year.	Part of year.	Whole year.	Part of year.	Whole year.		
1	2	3	4	5	6	7	8
AJMERE-MERWARA	Sq. miles. 1	Sq. miles. 138	...	...	...	Sq. miles. 139	in 1892.
	61	78	...	...	...	139	in 1893.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

FORM No. 55.

FOREST DEPARTMENT, AJMERE-MERWARA.

Return of Grazing in the State Forests during 1892-93.

DIVISION.	GRAZING ON PAYMENT. AT FULL RATES.						NUMBER OF ANIMALS. AT PRIVILEGED RATES.							GRAZING FREE. BY RIGHT UNDER SETTLEMENT.						NUMBER OF ANIMALS. DURING PLEASURE OF GOVERNMENT, OR OTHERWISE THAN UNDER SETTLEMENT.							GRAND TOTAL OF VALUE AT FULL RATES.
	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Fees received.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Fees received. Actual.	Fees received. Value at full rates.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Value of Fees at full rates.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other animals.	Value of Fees at full rates.	Total value of Fees at full rates.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
						R						R	R						R						R	R	R
Ajmere-Merwara	247	39,227	369	288	2,548	577	4,882	24,362	...	...	...	4,251	8,494	381	2,116	...	...	...	912	...	...	...	...	...	...	9,983	

HIRA SINGH,

Extra Asstt. Conservator of Forests, Ajmere-Merwara.

ANNUAL FORM No. 56.—[*Prescribed.*]

FOREST DEPARTMENT, AJMERE-MERWARA.

Area of Plantations, 1892-93.

DIVISION.	Name of Plantation.	AREA IN ACRES. On 1st April 1892.	Added during the year.	Excluded during the year.	Area on 30th June 1893.	RECEIPTS of the year.	CHARGES of the year.	REMARKS.
		Areas taken up under the Regulation.				R	R	
AJMERE-MERWARA	Mohwabir and Mader Hill	87	31	15	103	...	39	
	Makerwali-Hokran	67	56	25	98	...	318	
	Nagpahar	29	...	...	29	...	...	
	Taragarh Valley	66	...	...	66	...	...	
	Srinagar	35	2	...	37	...	5	
	Danta	40	...	...	40	...	167	
	Rajgarh	5	...	...	5	...	...	
	Dilwara and Chang Gate birs	80	...	...	80	...	...	
	Jalia and Balad	5	3	...	8	...	245	
	Chang	34	1	...	35	...	...	
	Berwar-Kotra	71	40	10	101	...	17	
	Sheopura	30	2	1	31	...	...	
	Auspahar	...	4	2	2	...	...	
	Beliawas	12	5	2	15	...	...	
	Amner	...	1	1	...	...	...	
	Banjari-Mandlan	3	...	...	3	...	...	
	Todgarh	...	1	...	1	...	...	
	Dewair	47	2	1	48	...	...	
		Areas not taken up under the Regulation.						
	Shikast Masjid	6	...	...	6	...	...	
	Parade Plantation	8	...	...	8	...	...	
	Nurseries.							
	Pushkar Nurseries	4	...	...	4	698	386	
	Bir „	4	...	...	4	9	125	
	Sendra „	1	...	...	1	7	251	
	TOTAL	634	148	57	725	714	1,553	

AJMERE;
The 6th September 1893.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

FORM No. 57.

FOREST DEPARTMENT, AJMERE-MERWARA.

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1892-93, and Agency of Exploitation.

Division.	Timber in the rough; Logs.					Timber in the rough; Poles.					Sawn or squared Timber.					Miscellaneous.					Fuel.					Total.
	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Outturn.
	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.	c. ft.
I.—*Reserved Forests.*																									
Ajmere-Merwara.	...	6,560	...	90	6,650	...	3,664	334	2,712	6,710	...	...	...	75	75	...	268	...	458	726	...	266,695	800	...	267,495	281,656
Total .	...	6,560	...	90	6,650	...	3,664	334	2,712	6,710	...	...	...	75	75	...	268	...	458	726	...	266,695	800	...	267,495	281,656
II.—*Protected Forests.*																									
Total .																									
III.—*Unclassed Forests.*																									
Total .																									

Charcoal should be shown by its equivalent in fuel, the quantity of wood consumed in producing it being entered in cubic feet, solid.

AJMERE;
The 6th September 1893.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

ANNUAL FORM No. 58.—[*Prescribed.*]

FOREST DEPARTMENT, AJMERE-MERWARA.

Outturn of Minor Forest-produce during the year 1892-93.

Division.	Description of Produce.	Produce removed or utilized										Remarks.
		By Government Agency.		By Purchasers.		By Free Grants.		By Right-holders.		Total.		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
			R		R		R		R		R	
Ajmere-Merwara.	Bamboos (No)	...	...	12,996	266	...	...	...	...	12,996	266	Note.—Grass removed by, and free grazing allowed to, right-holders were erroneously shown under the column "Free grants" in previous reports.
	Fodder grass (maunds)	...	...	535	256	200	40	...	...	735	296	
	Do. (head-loads)	...	...	336	12	...	...	1,093,230	68,327	1,093,566	68,339	
	Do. (auction)	...	...	...	1,417	...	...	...	...	..	1,417	
	Munj grass (head-loads)	...	...	...	...	...	...	350	66	350	66	
	Grazing dues, 6 months (cattle)	...	...	1,221	339	...	...	25,907	3,785	27,128	4,124	
	Do. 4 „ („)	...	...	14	4	...	...	3,150	451	3,164	455	
	Do. 8 „ („)	...	...	...	...	...	...	1,572	408	1,572	408	
	Do. 15 „ („)	...	...	1	14	...	....	925	504	926	518	
	Do. 3 „ („)	...	...	187	15	...	...	...	...	187	15	
	Do. Dewair Pass	..	...	...	224	...	...	...	...	...	224	
	Fruits	...	...	...	617	...	...	...	...	...	617	
	Leaves, green and dry	...	...	...	400	...	...	...	...	...	400	
	Honey	....	...	...	50	...	...	...	...	...	50	
	Babul pods	...	...	...	33	...	...	...	...	...	33	
	Plants and seed	...	...	...	205	...	133	...	...	...	338	
	Stone	...	...	....	34	...	...	...	...	...	34	
	Miscellaneous	...	...	...	17	...	...	...	...	...	17	
	Total	...	...	...	3,903	...	173	...	73,541	...	77,617	

HIRA SINGH,

Extra Asstt. Conservator of Forests, Ajmere-Merwara.

ANNUAL FORM No. 61.—[*Prescribed*].

FOREST DEPARTMENT, INDIA—AJMERE-MERWARA.

Summary of Revenue of the different Divisions for the Forest year 1892-93.

BUDGET HEADS.	Direction.	Division.	Division.	Division.	Division.	Division.	Division.	Division.	TOTAL.		
RECEIPTS.									*R*	*a.*	*p.*
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—											
a. Timber											
b. Firewood and charcoal											
c. Bamboos											
d. Sandal-wood											
e. Grass and other minor produce											
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—											
a. Timber	...	...	...	...	...	...	...	...	342	0	0
b. Firewood and charcoal	...	...	...	...	...	...	...	...	7,740	0	0
c. Bamboos	...	...	...	...	...	...	...	...	266	0	0
d. Grazing and fodder grass	...	...	...	...	...	...	...	...	6,517	0	0
e. Other minor produce	...	...	...	...	...	...	...	...	1,356	0	0
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST-PRODUCE											
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—											
a. Duty on foreign timber and other forest-produce											
b. Revenue from shared and private forests											
V.—MISCELLANEOUS—											
a. Fines and forfeitures	...	...	...	...	...	...	...	...	243	0	0
b. Refunds	...	...	...	...	...	...	...	...	238	0	0
c. Other sources	...	...	...	...	...	...	...	...	167	0	0
TOTAL RECEIPTS	...	...	...	...	...	...	...	...	16,969	0	0

CALCUTTA;
The 4th September 1893.

I. C. BOSE,
Assistant Comptroller General (Forests).

ANNUAL FORM No. 61.—[*Prescribed.*]

FOREST DEPARTMENT, INDIA, AJMERE-MERWARA.

Summary of Expenditure of the different Divisions for the Forest year 1892-93.

BUDGET HEADS.	Direction.	Division.	Division.	Division.	Division.	Division.	Division.	Division.	TOTAL.
A.—CONSERVANCY AND WORKS.									
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—									
a. Timber									
b. Firewood and charcoal									
c. Bamboos									
d. Sandal-wood									
e. Grass and other minor produce									
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.									
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST-PRODUCE.									
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—									
a. Duty on foreign timber and other forest-produce									
b. Revenue from shared and private forests									
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHARE HOLDERS IN FORESTS MANAGED BY GOVERNMENT.									
Carried forward, A.—Conservancy and Works									

ANNUAL FORM No. 61 (*contd.*)—[*Prescribed.*]

FOREST DEPARTMENT, INDIA, AJMERE-MERWARA.

Summary of Expenditure of the different Divisions for the Forest year 1892-93—(continued).

BUDGET HEADS.	Direction.	Division.	Division.	Division.	Division.	Division.	Division.	Division.	TOTAL.		
										a.	*p.*
Brought forward, Total A.—Conservancy and Works :											
VI.—LIVE STOCK, STORES, TOOLS AND PLANT—											
a. Purchase of cattle									...	...	...
b. Feed and keep of cattle									129	0	0
c. Purchase of stores, tools and plant . . .									38	0	0
VII.—COMMUNICATIONS AND BUILDINGS—											
a. Roads and bridges									50	0	0
b. Buildings									19	0	0
c. Other works									317	0	0
VIII.—DEMARCATION, IMPROVEMENT AND EXTENSION OF FORESTS—											
a. Demarcation									17	0	0
b. Compensation for land and rights . . .									...	...	...
c. Surveys									12	0	0
d. Working-Plans									...	...	...
e. Sowing and planting									1,553	0	0
f. Protection from fire									136	0	0
g. Other works									100	0	0
IX.—MISCELLANEOUS—											
a. Refunds											
b. Law charges											
c. Other charges											
TOTAL A.—CONSERVANCY AND WORKS .									2,371	0	0

ANNUAL FORM No. 61 (*concld.*)—[*Prescribed.*]

FOREST DEPARTMENT, INDIA, AJMERE-MERWARA.

Summary of Expenditure of the different Divisions for the Forest year 1892-93—(concluded).

BUDGET HEADS.	Direction.	Division.	Division.	Division.	Division.	Division.	Division.	Division.	TOTAL.		
									R	*a.*	*p.*
Brought forward, Total A.—Conservancy and Works									2,371	0	0
B.—ESTABLISHMENT.											
I.—SALARIES—											
a. Conservators									...	...	...
b. Superior officers									5,332	0	0
c. Subordinate forest and depôt establishments									5,983	0	0
d. Office establishments									1,466	0	0
e. Deputation and special allowances									1,003	0	0
II.—TRAVELLING ALLOWANCES—											
a. Conservators									...	...	...
b. Superior officers									1,436	0	0
c. Subordinate forest and depôt establishments									409	0	0
d. Office establishments									37	0	0
III.—CONTINGENCIES—											
a. Stationery									11	0	0
b. Carriage of tents and records									166	0	0
c. Rents, rates and taxes									210	0	0
d. Pay of police guards									...	...	..
e. Official postage									60	0	0
f. Sundries									287	0	0
TOTAL B.—ESTABLISHMENTS									16,400	0	0
GRAND TOTAL OF EXPENDITURE									18,771	0	0

CALCUTTA ;
The 4th September 1893.

I. C. BOSE,
Assistant Comptroller General (Forests).

ANNUAL FORM No. 62.—[*Prescribed.*]

FOREST DEPARTMENT, INDIA, AJMERE-MERWARA.

Dr. *Account Current for the Forest year 1892-93.* *Cr.*

	R	a.	p.	R	a.	p.		R	a.	p.	R	a.	p.
To CASH BALANCE	...			19	12	5	By EXPENDITURE AS PER ANNUAL SUMMARY FORM No. 61	...			18,771	2	0
„ VIII.—Assessed Taxes—							„ Deposits	...			200	0	0
Income Tax—Deductions from salaries	...			199	8	6	„ Forest Cash Remittance—Local—						
„ REVENUE AS PER ANNUAL SUMMARY, FORM No. 61	...			16,908	15	1	Remittances to Treasuries	16,296	0	11			
„ Service Funds—											16,296	0	11
Civil Fund—Ordinary, Bengal	...			...			Inter-Divisional Transfers	...			...		
„ Additional, Bengal	...			...									
Military Fund—Bengal	...			...									
„ „ Madras	...			...			„ Advances recoverable	...			152	2	3
„ Orphan Fund—Bengal	...			...			„ Suspense	...			...		
Uncovenanted Service Family Pension Fund—Bengal	...			...			„ Account current (other Governments)—						
General Family Pension Fund	...			...			Remittances to the Government of———	...			...		
Hindu Family Annuity Fund	...			...			„ Account current with Foreign States—						
„ DEPOSITS	...			200	0	0	Berar Suspense Account	...			450	0	0
„ Forest Cash Remittances—Local—							„ Inter-Departmental Transfers—						
Forest cheques drawn	18,727	0	0				Public Works Department———	...					
Inter-Divisional Transfers	...												
				18,727	0	0							
„ Advances recoverable	...			145	5	2							
„ Suspense	...			...			Military Department, Bombay	380	0	0			
„ Account Current (other Governments)—													
Remittances from Government of Bengal	...			54	0	0							
Account current with Foreign States—													
Berar suspense account	...			11	11	6	Civil Department	...					
„ Inter-Departmental Transfers—													
Public Works Department	...			...							380	0	0
Military Department	...			...									
Civil Department—													
Jail	...												
Mathematical Instrument Department	8	0	0				Cash Balance	...			24	15	6
				8	0	0							
Miscellaneous	...												
TOTAL	...			36,274	4	8	TOTAL	..			36,274	4	8

CALCUTTA;
The 4th September 1893.

I. C. BOSE,
Assistant Comptroller General (Forests).

ANNUAL FORM No. 63.—[*Prescribed.*]

FOREST DEPARTMENT, AJMERE-MERWARA.

Revenue received and Outstandings on account of Revenue during 1892-93.

DIVISION.	PARTICULARS.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realised during year.	Balance due to the Department at end of year.	REMARKS
	₹	₹	₹	₹	₹	₹	
Ajmere-Merwara	...	...	16,909	16,909	16,909	*Nil.*	
	TOTAL		16,909	16,909	16,909	...	

AJMERE;
The 7th September 1893.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

ANNUAL FORM No. 64.—[*Prescribed.*]

FOREST DEPARTMENT, INDIA, AJMERE-MERWARA.

Outstandings and Liabilities on account of Contractors and Disbursers for the Forest year 1892-93.

DIVISION.	DEPARTMENT DR.			DEPARTMENT CR.			BALANCE DUE.		
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department. (Outstandings).	By Department (Liabilities).	REMARKS.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		₹ a. p.	₹ a. p.	₹ a. p.	₹ a. p.	₹ a. p.	₹ a. p.	₹ a. p.	
Ajmere-Merwara	...	145 5 2	145 5 2	0 6 2	152 2 3	152 8 5	7 3 3	...	
TOTAL	...	145 5 2	145 5 2	0 6 2	152 2 3	152 8 5	7 3 3	...	

CALCUTTA;
The 4th September 1893.

I. C. BOSE,
Assistant Comptroller General (Forests).

ANNUAL FORM No. 65.—[*Prescribed.*]

FOREST DEPARTMENT, AJMERE-MERWARA.

Financial Results of the year 1892-93.

DIVISION.	TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY.		OTHER REVENUE.		FORMATION, PROTECTION, AND IMPROVEMENT OF FORESTS.	TOTAL.		REMARKS.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts	Charges.	
	₹	₹	₹	₹	₹	₹	₹	
Ajmere-Merwara	...	...	16,909	6,560	12,211	16,909	18,771	
TOTAL	...	...	16,909	6,560	12,211	16,909	18,771	

AJMERE;
The 6th September 1893.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

FORM No. A.

Statement showing rainfall registered during the year 1892.

Months.	Satpura.				Madar Hill.		Bajrangarh		Nagpahar.				Danta.				Rajgarh.				Dilwarabir.				Remarks.
	Inside Forest		Outside Forest.						Inside Forest.		Outside Forest.		Inside Forest.		Outside Forest.		Inside Forest.		Outside Forest.		Inside Forest.		Outside Forest.		
1892.																									
January	1	35	1	11	1	5	...	72	...	93	...	58	...	85	...	59	...	30	...	30	1	13	...	81	
February	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
March	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	
April	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	
May	...	37	...	30	...	29	...	6	...	29	...	10	...	45	...	43	..	15	...	12	...	13	...	8	
June	..	90	...	83	...	47	...	38	..	33	...	25	...	77	...	63	...	82	...	78	1	49	1	15	
July	4	88	4	36	4	14	4	25	8	94	6	5	11	76	9	74	10	91	10	41	4	96	5	33	
August	10	33	9	64	7	92	5	67	12	77	7	45	15	3[illegible]	14	20	9	42	8	99	9	14	9	15	
September	8	5	7	97	6	19	5	76	7	22	4	49	10	63	10	49	12	29	11	92	10	6	10	9	
October	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	15	...	19	
November	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
December	...	...	...	...	...	...	...	...	...	...	...	...	...	18	...	20	...	13	...	12	...	7	...	5	
Total	25	88	24	21	20	6	16	84	30	48	18	92	40	2	36	28	34	2	32	64	27	13	26	85	
Total of 1891	9	65	8	75	8	21	6	65	10	42	6	83	8	86	8	48	9	33	8	79	8	21	7	52	

Ajmere;
The 5th September 1893.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

APPENDIX B.

METEOROLOGICAL OBSERVATIONS (STATION A).

Results of Meteorological Observations conducted at the Ajmere Forest Nursery, 1,640 feet above sea-level. Observatories of the standard pattern. Cages with instruments 4' above ground.

CALENDAR YEAR.	DRY MAXIMUM.		DRY MINIMUM.		DAILY MEANS.		MEAN VAPOUR TENSION.						MEAN RELATIVE HUMIDITY						RAINFALL IN INCHES.	REMARKS.
							UNDER TREES.			OUTSIDE TREES.			UNDER TREES.			OUTSIDE TREES.				
	Under Trees.	Outside Trees.	Under Trees.	Outside Trees.	Under Trees.	Outside Trees.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.		
1892.																				
January	75·3	76·2	48·9	49·1	61·3	62·2	·255	·307	·286	·262	·293	·274	74	49	35	74	45	33	1·12	
February	80·0	81·5	51·6	51·8	65·3	66·4	·297	·313	·299	·271	·287	·277	75	44	30	70	38	28	...	
March	93·0	95·1	58·9	58·9	76·5	78·1	·316	·283	·301	·266	·267	·276	62	25	22	52	22	18	...	
April	103·8	105·2	73·4	71·9	88·2	88·4	·560	·615	·594	·545	·435	·534	71	40	31	72	27	26	...	
May	103·2	104·0	79·4	80·0	89·7	90·6	·373	·393	·392	·371	·375	·387	37	28	21	35	26	20	0·36	
June	100·9	101·9	81·5	81·6	89·5	90·8	·493	·510	·502	·500	·493	·487	45	35	28	46	32	26	0·70	
July	93·6	94·6	78·1	78·0	84·2	85·2	·679	·677	·700	·683	·682	·670	71	58	49	71	55	45	4·88	
August	86·6	88·0	74·4	75·0	79·1	80·5	·773	·838	·816	·769	·817	·817	90	80	70	89	76	65	7·30	
September	84·7	86·2	72·2	72·8	77·4	78·4	·717	·788	·800	·714	·803	·833	90	80	71	88	77	70	5·61	
October	87·7	89·4	57·1	57·5	71·8	73·8	·397	·467	·474	·387	·468	·469	82	43	38	79	40	35	...	
November	81·3	82·7	44·2	44·5	62·8	64·1	·231	·260	·242	·221	·262	·261	77	29	24	74	28	24	...	
December	73·7	74·1	40·4	40·2	56·2	55·7	·189	·280	·241	·180	·290	·238	73	46	32	71	49	31	...	
TOTAL	1,063·8	1,078·9	760·1	761·3	902·0	914·2	5·270	5·731	5·647	5·169	5·472	5·523	846	557	451	821	515	421	19·97	
Average	88·7	89·9	63·3	63·4	75·2	76·2	·439	·470	·470	·431	·456	·460	71	46	38	68	43	35	...	
TOTAL OF 1891	1,064·3	1,079·8	745·0	750·2	891·9	903·4	5·297	5·457	5·249	5·323	5·363	5·165	863	524	410	851	489	375	8·82	
Average	88·7	90·0	62·1	62·5	74·3	75·3	·441	·455	·437	·444	·455	·430	72	44	34	71	41	31	...	

AJMERE;
The 5th September 1893.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

APPENDIX C.

METEOROLOGICAL OBSERVATIONS (STATION B).

Results of Meteorological Observations conducted at the Mohwabir Forest Reserve, about 1,680 feet above sea-level. Observatories of the Dehra Dun School pattern. Cages with instruments 4' above ground.

CALENDAR YEAR.	DRY MAXIMUM.		DRY MINIMUM.		DAILY MEANS.		MEAN VAPOUR TENSION						MEAN RELATIVE HUMIDITY.						RAINFALL.	
							INSIDE FOREST.			OUTSIDE FOREST.			INSIDE FOREST.			OUTSIDE FOREST.				
	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	Inside.	Outside.
1892.																				
January	76·9	76·1	45·8	50·2	60·3	61·8	·179	·295	·288	·245	·293	·273	57	45	35	67	49	34	1·42	1·32
February	82·3	80·6	48·8	53·2	65·0	80·0	·158	·295	·287	·246	·303	·271	45	39	28	60	42	28	...	...
March	95·7	93·4	55·4	61·9	76·0	78·1	·196	·324	·334	·274	·303	·300	38	26	22	48	26	20	...	...
April	103·2	106·0	69·2	74·7	89·1	89·6	·487	·561	·578	·516	·561	·559	60	34	35	59	34	28	...	...
May	103·9	103·6	78·7	79·5	85·9	89·7	·384	·404	·421	·364	·385	·390	39	28	22	37	28	20	0·36	0·36
June	101·7	101·2	81·1	81·5	89·3	89·6	·510	·503	·495	·441	·485	·448	48	34	27	31	33	26	0·70	0·69
July	95·1	93·2	77·6	77·9	84·3	84·3	·628	·674	·671	652	·677	·665	66	56	47	69	57	48	4·88	4·65
August	89·4	88·5	74·8	74·6	80·4	80·1	·808	·826	·824	·747	·820	·815	93	76	65	87	78	65	7·30	8·0
September	87·5	86·5	72·2	72·4	77·7	76·4	·737	·816	·834	·697	·821	·846	99	79	71	87	86	79	5·61	6·63
October	89·1	89·1	58·0	59·6	72·6	74·0	·422	·483	·484	·401	·478	·479	84	44	37	75	42	36	...	...
November	83·1	83·6	46·4	46·5	61·1	64·6	·239	·288	·274	·191	·277	·253	73	32	29	59	31	23	...	...
December	74·8	70·0	40·3	42·6	55·8	56·3	·214	·279	·217	·172	·284	·223	83	44	28	62	48	28	...	...
TOTAL	1,082·7	1,076·8	748·3	774·6	900·5	924·5	4·962	5·748	5·707	4·946	5·687	5·522	778	537	446	741	554	435	20·27	21·65
Average	90·2	89·7	62·3	64·5	75·0	77·0	·413	·479	·475	·412	·474	·460	65	45	37	62	46	36	...	...
TOTAL OF 1891	1,089·4	1,067·3	724·7	762·1	890·9	890·1	4·718	5·562	5·469	5·217	5·404	5·158	808	510	403	813	523	391	9·79	9·16
Average	90·8	87·3	60·4	63·5	74·2	74·2	·393	·464	·456	·435	·450	·430	67	42	34	68	45	33	...	...

AJMERE;

The 5th September 1893.

HIRA SINGH,

Extra Asstt. Conservator of Forests, Ajmere-Merwara.

APPENDIX D.

METEOROLOGICAL OBSERVATIONS (STATION C).

Results of Meteorological Observations conducted at Raoli Forest Reserve (Todgarh block), about 2,800 feet above sea-level. Observatories of the Dehra Dun Forest School pattern. Cages with instruments 4′ above ground.

CALENDAR YEAR.	DRY MAXIMUM.		DRY MINIMUM.		DAILY MEANS.		MEAN VAPOUR TENSION.						MEAN RELATIVE HUMIDITY.						RAINFALL.	
							INSIDE FOREST.			OUTSIDE FOREST.			INSIDE FOREST.			OUTSIDE FOREST.				
	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	Inside Forest	Outside Forest.
1892.																				
January	81·2	79·7	53·4	52·2	65·2	64·0	·256	·298	·238	·233	·307	·243	63	44	25	61	47	27	3·0	2·89
February	86·9	85·4	54·4	53·4	69·7	68·8	·281	·273	·229	·252	·279	·228	65	32	19	63	35	20	...	...
March	97·5	96·2	59·7	58·2	77·7	77·0	·270	·359	·319	·245	·372	322	51	31	20	50	34	21	...	...
April	106·9	106·2	76·9	75·7	90·4	89·9	·391	·375	·345	·365	·387	·352	43	24	16	41	25	17		...
May	105·8	104·7	78·8	78·1	90·0	89·7	·463	·458	·414	·424	·476	·424	48	32	20	45	34	22	0·51	0·48
June	105·7	104·6	81·6	81·4	90·5	90·1	·575	·539	·523	·543	·562	·536	54	37	26	51	40	27	0·23	0·19
July	95·6	93·9	78·3	78·1	84·0	83·9	·709	·650	·648	·684	·684	·670	75	57	47	71	61	49	6·19	6·80
August	84·6	84·0	75·9	75·7	78·0	78·2	·772	·727	·724	·756	·770	·757	84	76	70	85	77	72	12·86	11·78
September	84·2	83·8	74·4	74·5	78·0	77·4	·775	·761	·754	·772	...	...	91	75	70	89	...	...	17·28	17·09
October	87·8	87·5	63·0	64·3	74·8	74·8	·520	·545	·527	·551	·479	·461	87	50	42	90	44	38	...	...
November	85·9	86·0	48·6	50·3	66·9	67·1	·304	·277	·265	·306	·286	·279	88	27	23	84	28	25		...
December	79·2	79·4	46·2	46·8	61·5	61·3	·256	·242	·233	·266	·246	·232	81	33	26	81	35	26	...	...
TOTAL	1,081·3	1,091·4	791·2	788·7	926·7	922·2	5·572	5·504	5·219	5·397	4·848	4·504	830	518	404	811	460	344	40·07	39·23
Average	90·1	91·0	66·0	65·7	77·2	76·8	·464	·459	·435	·450	·404	·375	69	43	32	68	39	29	...	...
TOTAL OF 1891	1,109·2	1,086·6	771·2	766·9	916·7	907·2	5·257	5·308	4·689	4·908	5·540	5·411	786	482	321	762	527	355	11·61	12·67
Average	92·4	90·5	64·3	63·9	76·4	75·6	·439	·442	·391	·409	·462	·451	65	40	27	64	44	30	..	...

AJMERE;
The 5th September 1893.

HIRA SINGH,
Extra Asstt. Conservator of Forests, Ajmere-Merwara.

Government of India Central Printing Office.—No. 271 R. & A. D.—1-1-94.—00—A. G.